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US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	DBs
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382/164,166,173,224,239,240,248- 251,276,282,283;375/240.18,240.19.ccls.	S28 and @ad<"20020114"	(compress\$3 same ((image picture) with (crop\$4 trim\$4 identif\$7 locat\$3 determin\$5) with (margin border)))	(MRC same ((base adj1 colo\$1r) with offset))	(MRC same (margin with colo\$1r with offset))	((JPEG2000 "JPEG 2000") with (foreground background))	(JPEG\$12000 with (foreground background)) and ((JBIG JBIG1) with mask)	(JPEG\$12000 with (foreground background))	S21 and @ad<"20020114"	Search Text
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Framework for the development of an experimental mixed-mode message system

S. Christodoulakis

July 1984 Proceedings of the 7th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pof(1, 13 MB)

Additional Information: full ditation, abstract, references

We describe a framework for the development of a mixed-mode message system for an office environment. Messages may be composed of attributes, text, images, and voice. Message retrieval is based on content. We discuss several issues related to the development of such systems. Text retrieval techniques are important for content retrieval in this environment.

Tracking text in mixed-mode documents

J Patrick Bixler

January 2000 Proceedings of the ACM conference on Document processing systems

Full text available: 📆 pdf(611.90 KB) — Additional Information: full cliation, references, citings, index terms

Automatically extracting highlights for TV Baseball programs

Yong Rui, Anoop Gupta, Alex Acero

October 2000 Proceedings of the eighth ACM international conference on Multimedia



Additional Information: full citation, abstract, references, citings, index terms

In today's fast-paced world, while the number of channels of television programming available is increasing rapidly, the time available to watch them remains the same or is decreasing. Users desire the capability to watch the programs time-shifted (on-demand) and/or to watch just the highlights to save time. In this paper we explore how to provide for the latter capability, that is the ability to extract highlights automatically, so that viewing time can be reduced.

We focus on the sp ...

Keywords: audio, baseball, highlights, summarization, television, video

Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3



Full text available: mg cof(636,24 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

5 Picture Processing by Computer

Azriel Rosenfeld

September 1969 ACM Computing Surveys (CSUR), Volume 1 Issue 3

Full text available: Residue 10 pois (2 69 MB)

Additional Information: full citation, references, citings, index terms

Reading text from computer screens

Carol Bergfeld Mills, Linda J. Weldon

December 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 4

Full text available: pdf(3.33 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper reviews empirical studies concerning the readability of text from computer screens. The review focuses on the form and physical attributes of complex, realistic displays of text material. Most studies comparing paper and computer screen readability show that screens are less readable than paper. There are many factors that could affect the readability of computer screens. The factors explored in this review are the features of characters, the formatting of the screen, the contras ...

7 Document image understanding

Sargur N. Srihari

November 1999 Proceedings of 1986 ACM Fall joint computer conference

Full text available: mbdf(1 38 MB)

Additional Information: full citation, references, citings, index terms

Digital information retrieval

Chabane Djeraba, marinette Bouet

January 1997 Proceedings of the sixth international conference on Information and knowledge management

Full text available: Page (1.06 MB)

Additional Information: full citation, references, index terms

On the power of the frame buffer

Alain Fournier, Donald Fussell

April 1988 ACM Transactions on Graphics (TOG), Volume 7 Issue 2

Full text available: sof(1,95 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Raster graphics displays are almost always refreshed out of a frame buffer in which a digital representation of the currently visible image is kept. The availability of the frame buffer as a two-dimensional memory array representing the displayable area in a screen coordinate system has motivated the development of algorithms that take advantage of this memory for more than just picture storage. The classic example of such an algorithm is the depth buffer algorithm for determining visible s ...

10 Image Models

Narendra Ahuja, B. J. Schachter

December 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 4

Full text available: pdf(2.99 MB)

Additional Information: full citation, references, citings, index terms

11 Special issue on spatial database systems: An introduction to spatial database systems

Ralf Hartmut Güting

October 1994 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 3 Issue 4

Full text available: pdf(2.50 MB)

Additional Information: full citation, abstract, references, citings

We propose a definition of a spatial database system as a database system that offers spatial data types in its data model and query language, and supports spatial data types in its implementation, providing at least spatial indexing and spatial join methods. Spatial database systems offer the underlying database technology for geographic information systems and other applications. We survey data modeling, querying, data structures and algorithms, and system architecture for such systems. The em ...

12 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements

Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy

November 2003 Proceedings of the 2003 ACM symposium on Document engineering

Full text available: 📆 pdf(458.01 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: PDF, form Xobjects, graphic objects, tagged PDF

13 Editing and authoring: User-directed analysis of scanned images

Steven J. Simske, Jordi Arnabat

November 2003 Proceedings of the 2003 ACM symposium on Document engineering

Full text available: soft3.36 MB) Additional Information: full citation, absiract, references, index terms

Digital capture (scanning in all its forms, and digital photography/video recording), in providing virtually free temporary memory of captured information, allows users to "overgather" information during capture, and then to discard unwanted material later. For cameras and video recorders, such editing largely consists of discarding images or frames in their entirety. For scanners (and high-resolution camera/video), such editing benefits from a preview capability that provides quick and reliabl ...